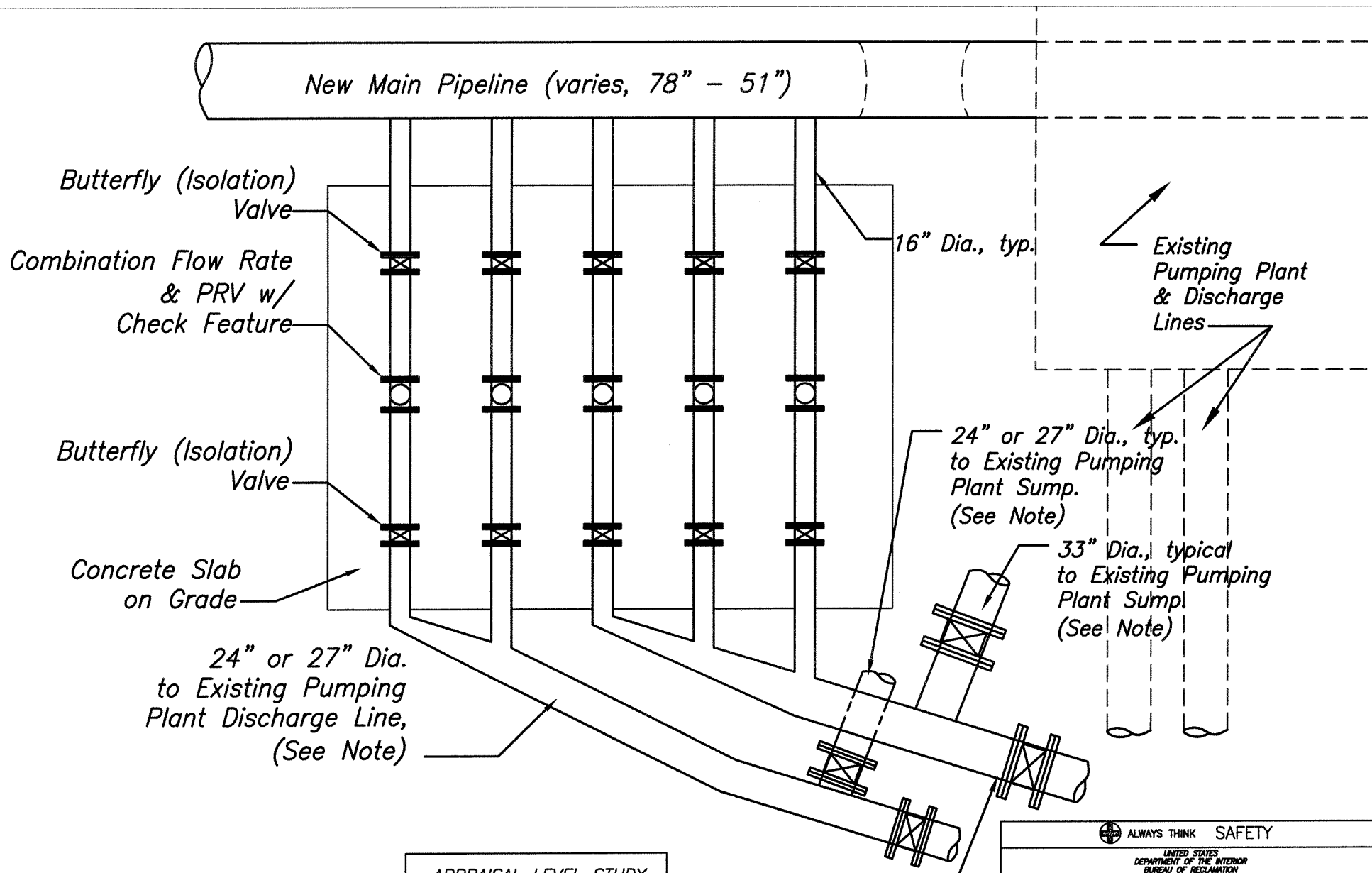


ATTACHMENT E. DRAWINGS

- 33-155T-376 — Manifold to Supply Existing Pumping Plants 2 & 3 for Plans 1 through 4-A
- 33-155T-377 — Typical Farm Turnout for Plans 1 through 4-A
- 33-155T-378 — Typical Relift Pump, Plan 5



Notes:

1. For low pressure, manifold pipelines would discharge into existing pump sumps.
2. Terrace Heights pumping plant manifold, similar.

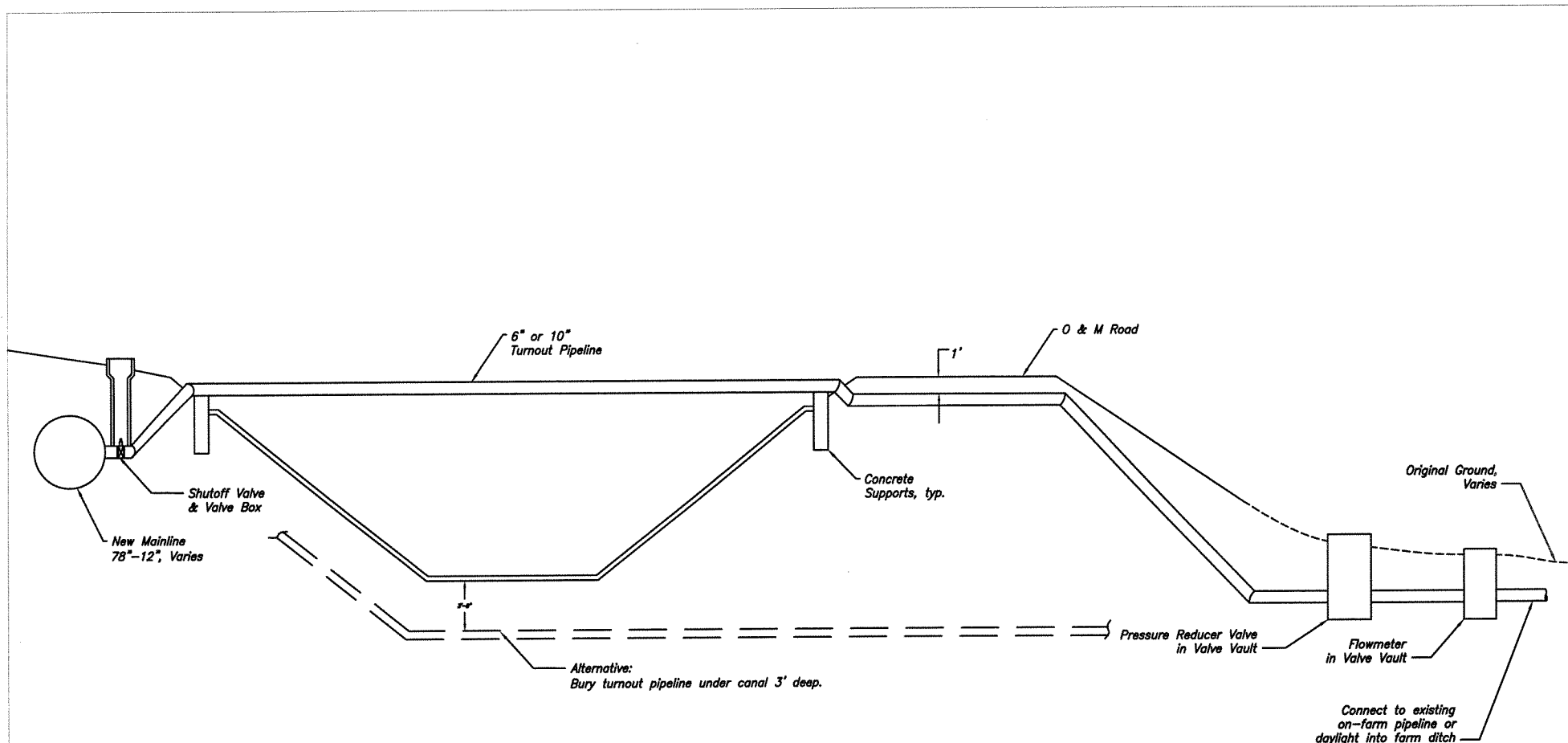
APPRAISAL LEVEL STUDY

NOT TO BE USED FOR
CONSTRUCTION

NOT TO SCALE

33" Dia., typical
to Existing Pumping
Plant Discharge Line,
(See Note)

ALWAYS THINK SAFETY		
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF RECLAMATION YAKIMA PROJECT YAKIMA RIVER BASIN WATER STORAGE OPTIONS FEASIBILITY STUDY BLACK ROCK ROZA IRRIGATION DISTRICT DELIVERY SYSTEM MANIFOLD TO SUPPLY EXISTING PUMPING PLANTS 2 & 3 OPTIONS 1, 1A, 2, 2A, 3, 3A, 4, 4A, 4B		
DESIGNED - <u>Gracelyn Christensen</u>	TECH. APPROVAL - _____	
DRAWN - <u>CJS</u>	_____	
CHECKED - <u>John Manfredi</u>	APPROVED - _____	
CADD SYSTEM AUTOCAD 2000	CADD FILENAME FILENAME.DWG	DATE PLOTTED 12/10/03
YAKIMA, WASHINGTON	FEBRUARY 4, 2004	33-155T-376



NOTES:

1. Air valves not shown.

APPRAISAL LEVEL STUDY

NOT TO BE USED FOR
CONSTRUCTION

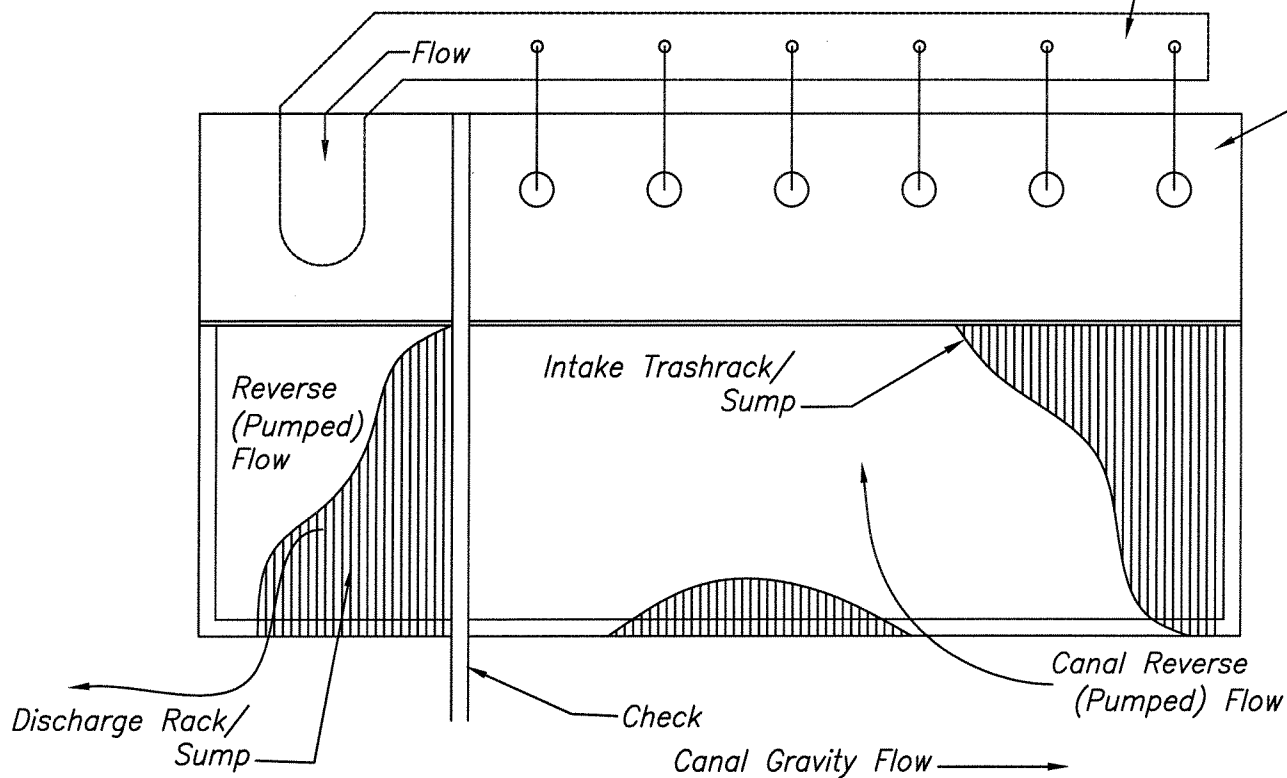
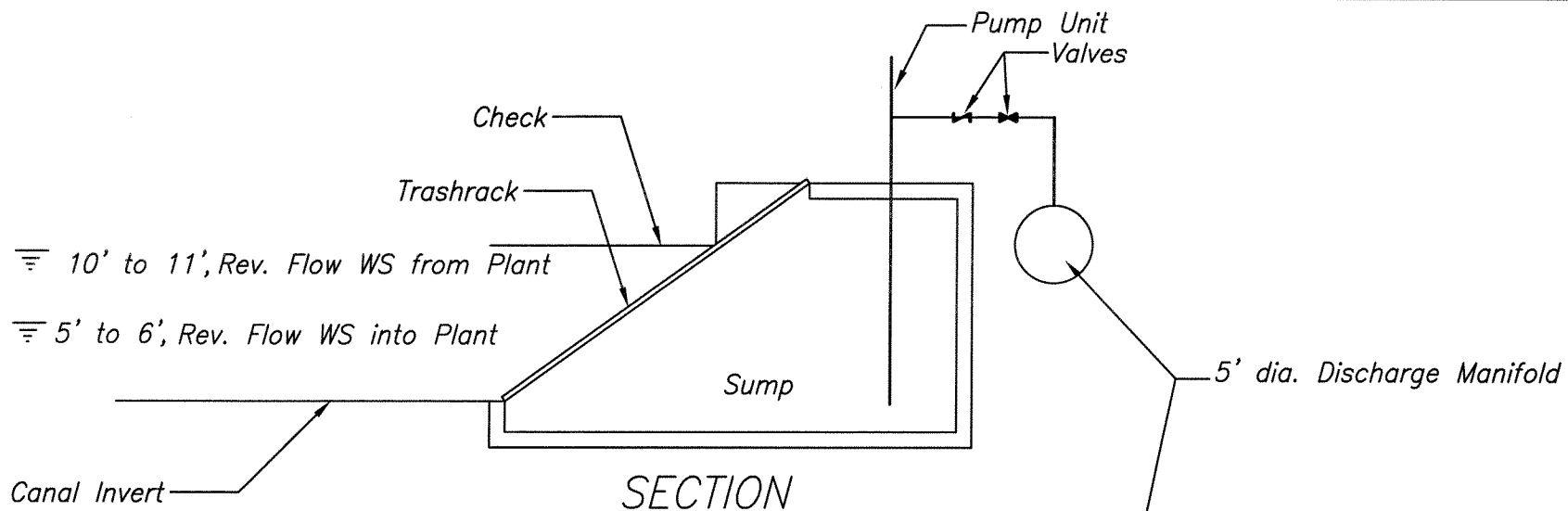


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YAKIMA PROJECT
YAKIMA RIVER BASIN WATER STORAGE OPTIONS FEASIBILITY STUDY
BLACK ROCK
ROZA IRRIGATION DISTRICT DELIVERY SYSTEM
TYPICAL DOWNSLOPE FARM TURNOUT
OPTIONS 1, 1A, 2, 2A, 3, 3A, 4, and 4A

DESIGNED Christopher Christensen TECH. APPROVAL _____
DRAWN _____ C.S. _____
CHECKED John Martindale APPROVED _____

CADD SYSTEM AUTOCAD 2000	CADD FILENAME FILENAME.DWG	DATE PLOTTED 12/10/03
YAKIMA, WASHINGTON	FEBRUARY 7, 2004	33-155T-377



40-50 cfs pumps;
number to match design
flow, plus one spare.

APPRAISAL LEVEL STUDY
NOT TO BE USED FOR
CONSTRUCTION

NOT TO SCALE

ALWAYS THINK SAFETY

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YAKIMA PROJECT
YAKIMA RIVER BASIN WATER STORAGE OPTIONS FEASIBILITY STUDY
BLACK ROCK
ROZA IRRIGATION DISTRICT DELIVERY SYSTEM
TYPICAL RELIFT PUMP
OPTION 5

DESIGNED Grandolph Christensen TECH. APPROVAL _____
DRAWN CAS _____
CHECKED John Manfredi APPROVED _____

CADD SYSTEM AUTOCAD 2000 CADD FILENAME FILENAME.DWG DATE PLOTTED 12/10/03
YAKIMA, WASHINGTON FEBRUARY 8, 2004 PROGRAM MANAGER
33-155T-378